

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/32244

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G01N 21/64  
 US CL : 356/317-318; 250/459.1

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
 U.S. : 356/317-318,417; 250/458.1-461.2; 436/172

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
 Please See Continuation Sheet

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 3,826,364 B1 (BONNER et al.) 30 July 1974 (30.07.1974), figs. 1A - 1B, column 5, line 66 - column 7, line 38.	1-22
A	US 4,727,020 B1 (RECKTENWALD) 23 February 1988 (23.02.1988), fig. 1, column 3, line 25 - column 10, line 2.	1-22
A	US 5,528,045 B1 (HOFFMAN et al.) 18 June 1996 (18.06.1996), fig. 1, column 2, line 28 - column 6, line 67.	1-22

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

05 April 2005 (05.04.2005)

Date of mailing of the international search report

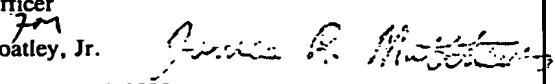
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Name and mailing address of the ISA/US

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Continuation of B. FIELDS SEARCHED Item 3:  
**EAST**  
search terms: fluoresc\$, luminesc\$, excit\$, filter\$, threshold, cross-correlation